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21 BIT---a child of the computer

77%

 C.-E. Froberg

Proceedings of the ACM conference on History of scientific and numeric computation October 1987

The back-ground of the Scandinavian computer journal B I T will be outlined, in particular with respect to computational demands in science, technology, industry and defense. The history of B I T will be described and related to the evolution of computers, numerical mathematics and computer science. Some contributed papers which have had an impact on the general development will be discussed briefly. The 19th century could perhaps be characterized as a period of preparation for t ...

22 Computing curricula 2001

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 **Journal on Educational Resources in Computing (JERIC)** September 2001

23 Automatic categorization of case law

77%

 Paul Thompson

Proceedings of the 8th international conference on Artificial intelligence and law May 2001

This paper describes a series of automatic text categorization experiments with case law documents. Cases are categorized into 40 broad, high-level categories. These results are compared to an existing operational process using Boolean queries manually constructed by domain experts. In this categorization process recall is considered more important than precision. This paper investigates three algorithms that potentially could automate this categorization process: 1) a nearest neighbor-like a ...

24 Development cost and size estimation starting from high-level specifications
 William Fornaciari , Fabio Salice , Umberto Bondi , Edi Magini
Proceedings of the ninth international symposium on Hardware/software codesign April 2001

This paper addresses the problem of estimating cost and development effort of a system, starting from its complete or partial high-level description. In addition, some modifications to evaluate the cost-effectiveness of reusing VHDL-based designs, are presented. The proposed approach has been formalized using an approach similar to the COCOMO analysis strategy, enhanced by a project size prediction methodology based on a VHDL function point metric. The proposed design size estimation methodol ...

25 Database research: achievements and opportunities into the 1st century
 Avi Silberschatz , Mike Stonebraker , Jeff Ullman
ACM SIGMOD Record March 1996
Volume 25 Issue 1

26 Information retrieval on the web
 Mei Kobayashi , Koichi Takeda
ACM Computing Surveys (CSUR) June 2000
Volume 32 Issue 2

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

27 Problems, knowledge, solutions (invited session): solving complex problems
 Enid Mumford
Proceedings of the international conference on Information systems December 1998

28 Image inpainting
 Marcelo Bertalmio , Guillermo Sapiro , Vincent Caselles , Coloma Ballester
Proceedings of the 27th annual conference on Computer graphics and interactive techniques July 2000

Inpainting, the technique of modifying an image in an undetectable form, is as ancient as art itself. The goals and applications of inpainting are numerous, from the restoration of damaged paintings and photographs to the removal/replacement of selected objects. In this paper, we introduce a novel algorithm for digital inpainting of still images that attempts to replicate the basic techniques used by professional restorators. After the user selects the regions to be restored, the algorithm ...

29 Improving and managing multimedia performance over TCP-IP nets
 Nathan J. Muller
International Journal of Network Management December 1998
Volume 8 Issue 6

The TCP-IP-based Internet and, consequently corporate Intranets, were not designed

for multimedia traffic. This article discusses the several ways of improving multimedia performance, finding that data compression techniques are no longer the most important factor. © 1998 John Wiley & Sons, Ltd.

30 Reducing computational complexity with array predicates 77%
 Robert Bernecker
ACM SIGAPL APL Quote Quad , Proceedings of the APL98 conference on Array processing language July 1998
Volume 29 Issue 3
This article describes how *array predicates* were used to reduce the computational complexity of four APL primitive functions when one of their arguments is a permutation vector. The search primitives, *indexof* and set membership, and the sorting primitives, *upgrade* and *downgrade*, execute in linear time on such arguments. Our contribution, a method for static determination of array properties, lets us generate code that is optimized for special cases of primitives. Our approach ...

31 Integrated solid modeler based solutions for machining 77%
 Allan D. Spence , Farid Abrari , M. A. Elbestawi
Proceedings of the fifth ACM symposium on Solid modeling and applications June 1999

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 Chris Preist , Maarten van Tol
Proceedings of the first international conference on Information and computation economies October 1998

33 Bibliography of recent publications on computer communication 77%
 Martha Steenstrup
ACM SIGCOMM Computer Communication Review January 1998
Volume 28 Issue 1
The quantitative results presented in our SIGCOMM '97 paper [1] include numerous minor errors. These errors were caused by programming bugs that led to faulty analyses and simulations, and by inaccurate transcriptions during the preparation of the paper. Here we present corrected figures and tables, as well as corrections to values that appeared in the text of the original paper. The effect of correcting the errors is to reduce the differences between the results based on the proxy trace and the ...

34 The joy of actuaries 77%
 Jan Karman
ACM SIGAPL APL Quote Quad December 1996
Volume 27 Issue 2

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 Matthew Chalmers , Robert Ingram , Christoph Pfranger
Proceedings of the 9th annual ACM symposium on User interface software and technology November 1996

36 The design and implementation of an object-oriented toolkit for 3D graphics and visualization 77%

William J. Schroeder , Kenneth M. Martin , William E. Lorensen
Proceedings of the 7th conference on Visualization '96 October 1996

37 Experiments on using semantic distances between words in image 77%
 caption retrieval
Alan F. Smeaton , Ian Quigley
Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval August 1996

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 Jos Stam , Eugene Fiume
Proceedings of the 22nd annual conference on Computer graphics and interactive techniques September 1995

39 Fuzzy control of technological processes in APL2 77%
 Alexander O. Skomorokhov , K.-H. Reinhardt , G. Roche , M. Tielemann
ACM SIGAPL APL Quote Quad , Proceedings of the international conference on Applied programming languages June 1995
Volume 25 Issue 4
A fuzzy control system has been developed to solve problems which are difficult or impossible to control with a proportional integral differential approach. According to system constraints, the fuzzy controller changes the importance of the rules and offers suitable variable values. The fuzzy controller testbed consists of simulator code to simulate the process dynamics of a production and distribution system and the fuzzy controller itself. The results of our tests confirm that this approach ...

40 Using semantic values to facilitate interoperability among 77%
 heterogeneous information systems
Edward Sciore , Michael Siegel , Arnon Rosenthal
ACM Transactions on Database Systems (TODS) June 1994
Volume 19 Issue 2
Large organizations need to exchange information among many separately developed systems. In order for this exchange to be useful, the individual systems must agree on the meaning of their exchanged data. That is, the organization must ensure semantic interoperability. This paper provides a theory of semantic values as a unit of exchange that facilitates semantic interoperability between heterogeneous information systems. We show how semantic values can enable ...

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